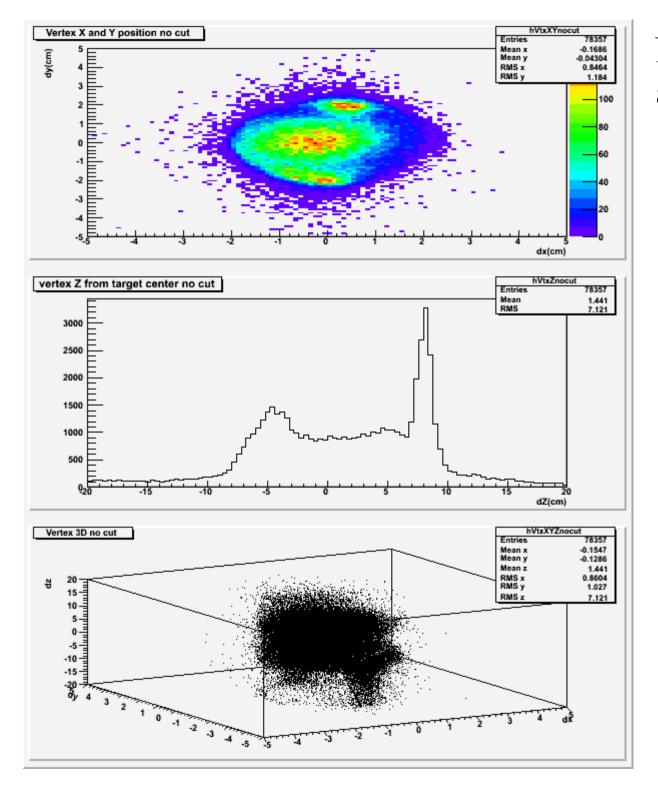
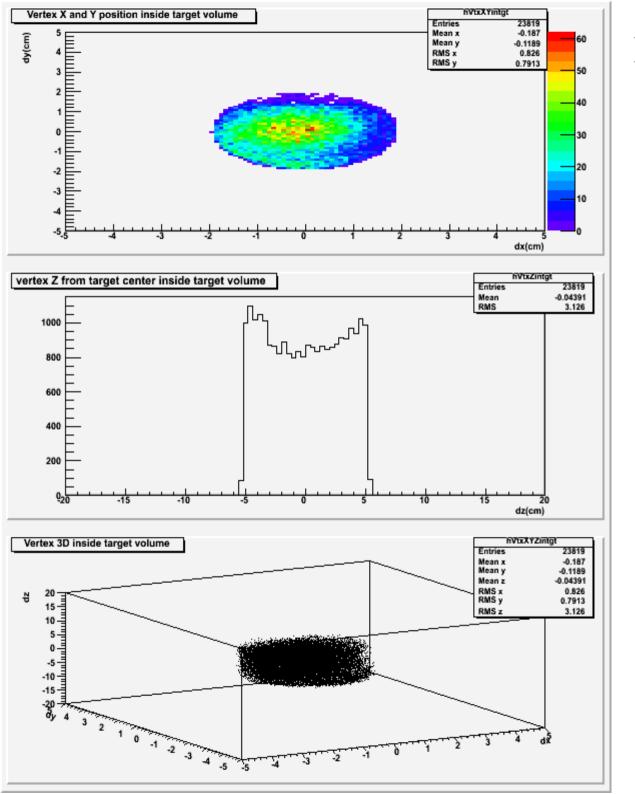
## Primary Vertex Position Study for 58 GeV/c proton beam on LH2 target

Gural Aydin 10/17/2008

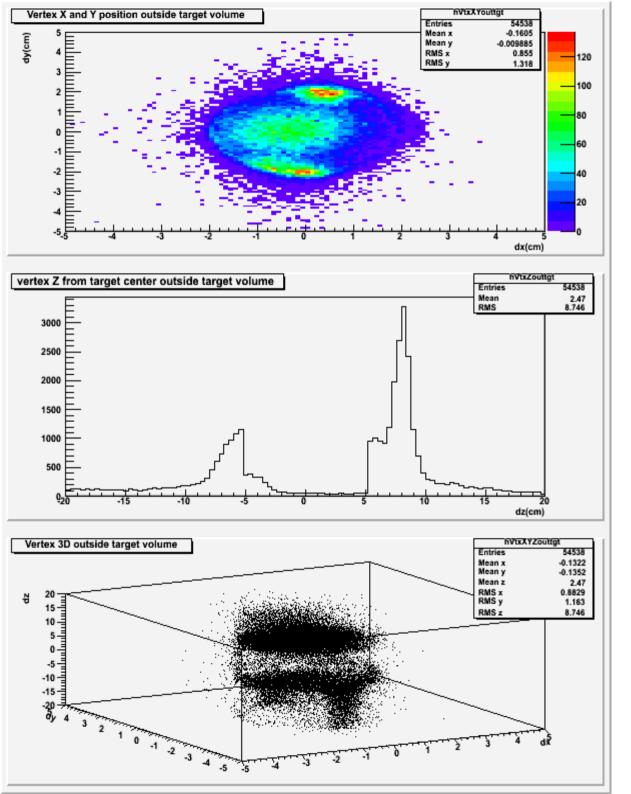
- -58 GeV/c beam on LH2 target was used to analyze primary vertex position distribution
- Primary vertices with more than 1 outgoing tracks were selected
- Events with only one beam track were selected
- The goal of the study to find cuts on primary vertex position



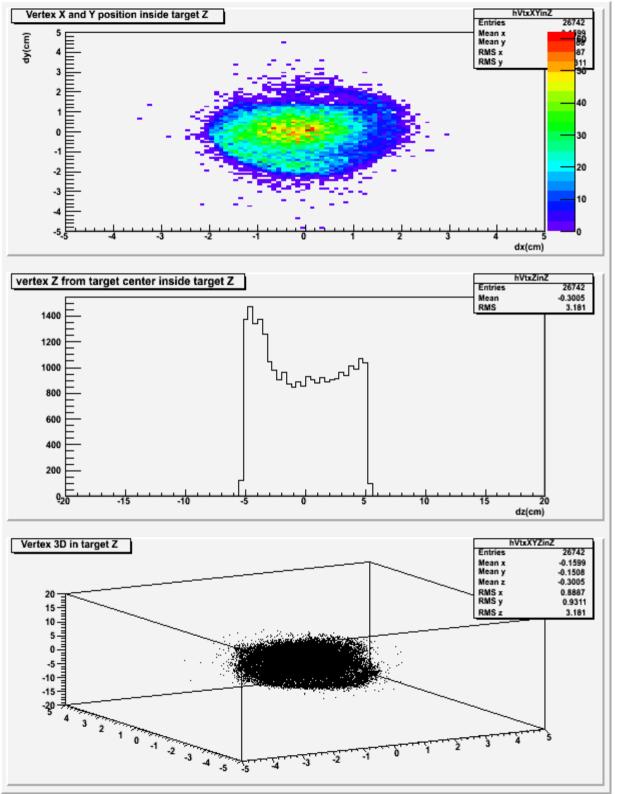
## NO CUT on vertex Z and R(radial)



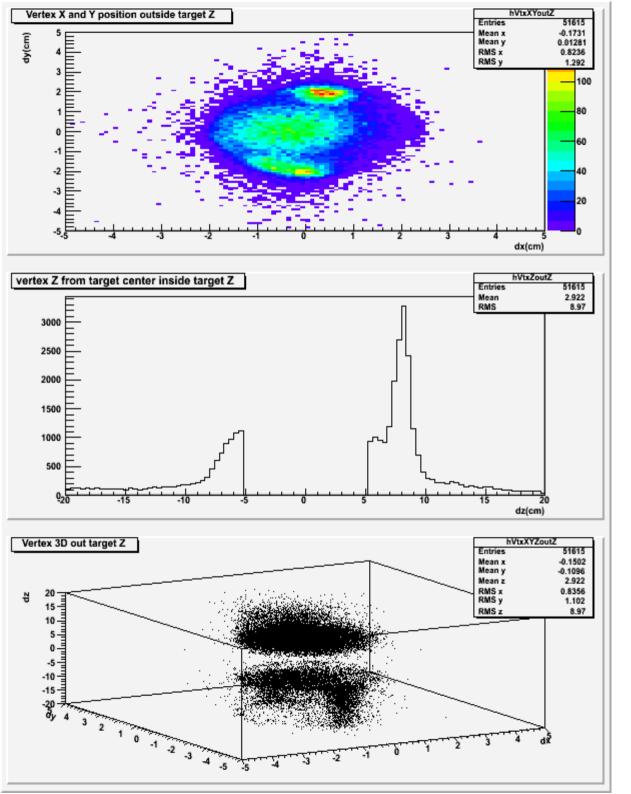
R<1.905 cm AND |dz| < 5.23 cm



R > 1.905 cm OR|dz| > 5.23 cm

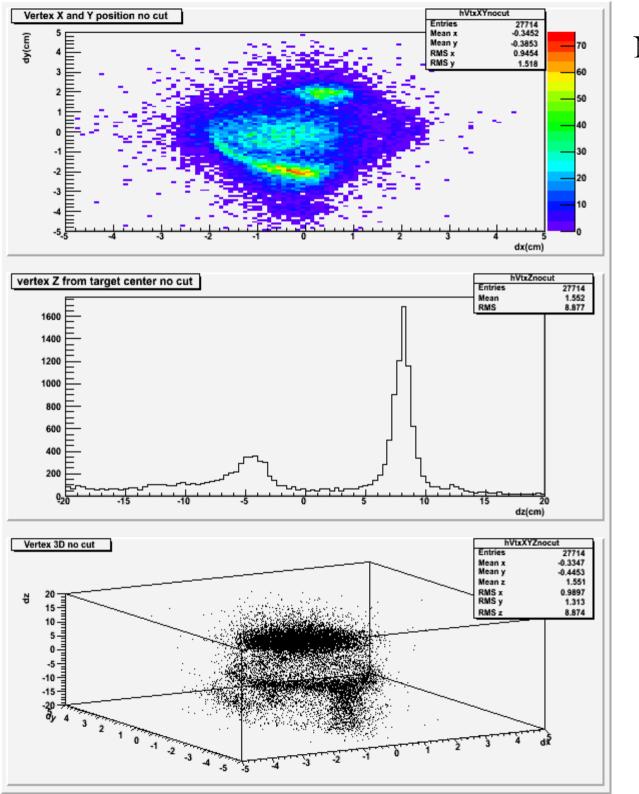


|dz| < 5.23 cm

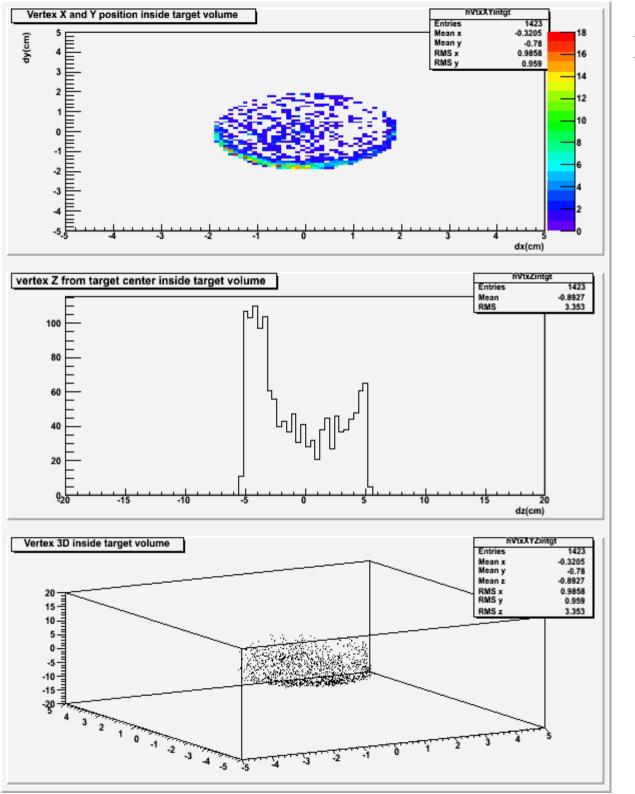


|dz| > 5.23 cm

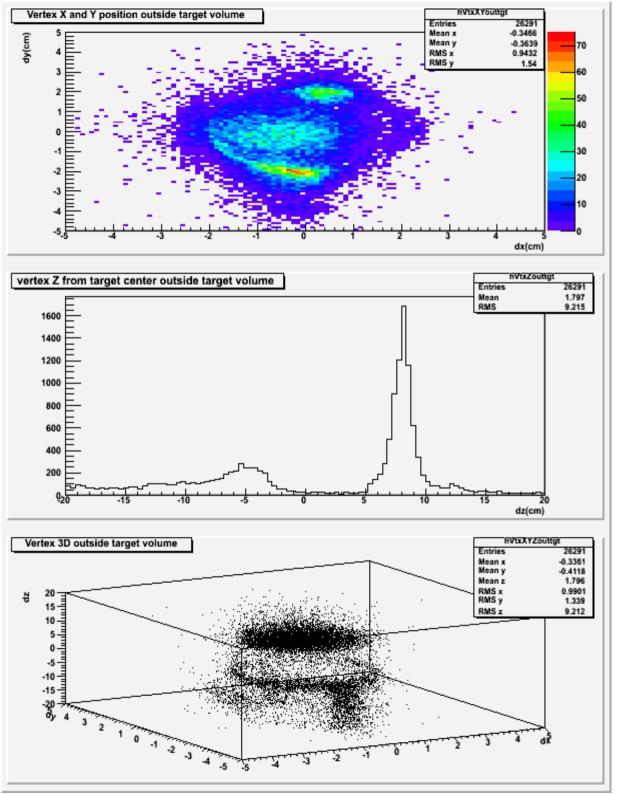
## **EMPTY LH2 TARGET**



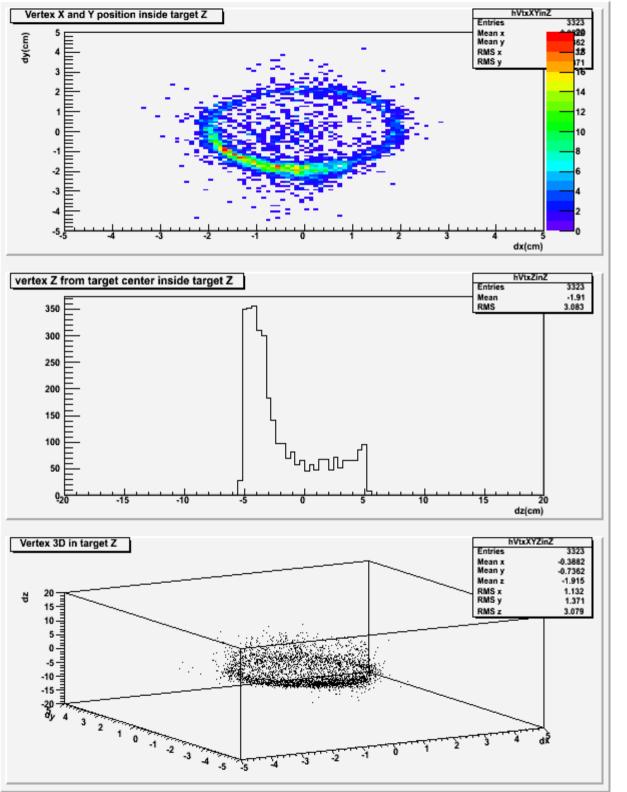
## NO CUT on position



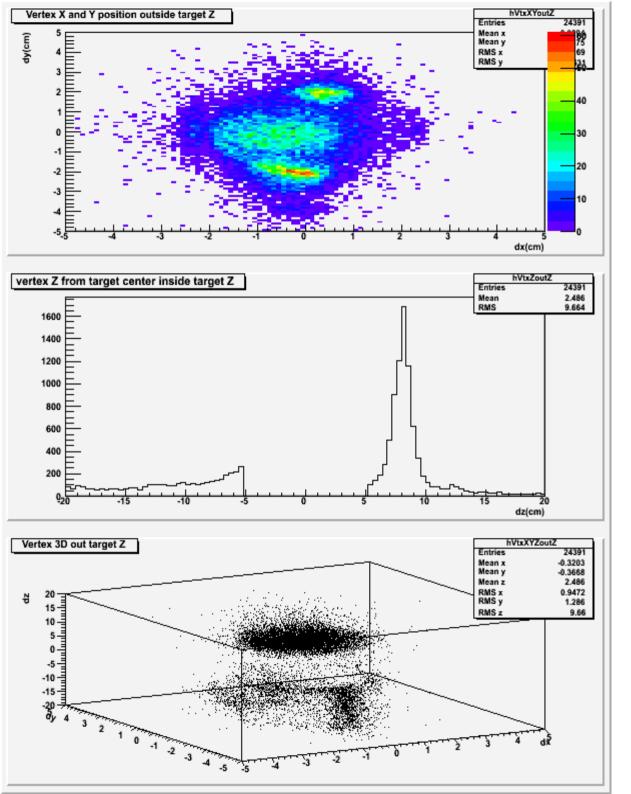
R < 1.905 cm AND |dz| < 5.23 cm



R > 1.905 cm OR|dz| > 5.23 cm



|dz| < 5.23 cm



|dz| > 5.23 cm